

Table 2A: Proposed Improvement Projects and Travel Time Savings in Seattle

Project No.	Inbound Direction (Eastbound)	Bus Mvnt	Proposed Improvement	Existing Delay [sec]			Time Savings [sec]		
Intersections on Market Street				AM	MD	PM	AM	MD	PM
BUD1	15th Ave NW	EBT	Inline Transit Stops/Bus Bulbs	8.6	9.6	8.3	8.6	9.6	8.3
BUD55	15th Ave NW	EBT	TSP	39.2	37.4	49.6	7.2	2.8	7.1
BUD2	14th Ave NW	EBT	Inline Transit Stops/Bus Bulbs	7.3	7.8	7.4	7.3	7.8	7.4
BUD3	11th Ave NW	EBT	Inline Transit Stops/Bus Bulbs	6.3	5.2	5.4	6.3	5.2	5.4
BUD4	8th Ave NW	EBT	Inline Transit Stops/Bus Bulbs	8.8	10.0	10.1	8.8	10.0	10.1
BUD5	6th Ave NW/5th Ave NW	EBT	Inline Transit Stops/Bus Bulbs	5.2	3.0	3.6	5.2	3.0	3.6
BUD6	3rd Ave NW	EBT	Inline Transit Stops/Bus Bulbs	4.9	4.2	3.1	4.9	4.2	3.1
BUD7	Baker Ave NW	EBT	Inline Transit Stops/Bus Bulbs	1.2	1.1	1.4	1.2	1.1	1.4
BUD8	1st Ave NW	EBT	Inline Transit Stops/Bus Bulbs	3.6	2.1	2.5	3.6	2.1	2.5
Market St. Total [sec]:				53.1	45.8	49.0			

Intersections on N 46th Street				AM	MD	PM	AM	MD	PM
BUD9	Phinney Ave N	EBT	Inline Transit Stops/Bus Bulbs	9.2	9.6	9.1	9.2	9.6	9.1
BUD10	Fremont Ave N	EBT	Inline Transit Stops/Bus Bulbs	7.6	7.4	7.0	7.6	7.4	7.0
BUD11	Whitman Ave N	EBT	Inline Transit Stops/Bus Bulbs	8.2	10.9	7.8	8.2	10.9	7.8
N 46th St. Total [sec]:				24.9	27.9	23.8			

Intersections on N and NE 45th Street				AM	MD	PM	AM	MD	PM
BUD12	Stone Way N	EBT	Inline Transit Stops/Bus Bulbs	8.7	10.5	9.9	8.7	10.5	9.9
BUD13	Woodlawn Ave N	EBT	Inline Transit Stops/Bus Bulbs	7.7	10.9	8.7	7.7	10.9	8.7
BUD14	Wallingford Ave N	EBT	TSP	18.3	32.7	32.1	2.1	2.8	2.3
BUD15	Wallingford Ave N	EBT	Inline Transit Stops/Bus Bulbs	10.5	11.8	11.3	10.5	11.8	11.3
BUD16	Sunnyside Ave N	EBT	Inline Transit Stops/Bus Bulbs	7.6	9.3	9.1	7.6	9.3	9.1
BUD17	Thackery Pl NE	EBT	TSP	9.7	10.8	15.0	0.9	0.5	0.7
BUD18	Thackery Pl NE	EBT	Inline Transit Stops/Bus Bulbs	9.1	9.7	9.2	9.1	9.7	9.2
BUD19	Latona Ave NE	EBT	TSP	5.6	6.5	6.7	0.9	0.5	0.7
BUD21	Latona Ave NE	EBT	Parking Removal	0.0	0.0	0.0	3.7	4.6	5.1
BUD20	5th Ave NE	EBT	TSP	14.6	20.7	25.7	2.3	4.9	6.2
BUD21	5th Ave NE	EBT	Parking Removal	0.0	0.0	0.0	0.3	10.0	2.9
BUD22	7th Ave NE	EBT	TSP	10.5	13.2	10.5	5.6	2.3	1.8
BUD24	Roosevelt Ave NE	EBT	Remove Left Turn	24.5	12.9	15.3	5.3	8.7	7.4
BUD46	11th Ave NE	EBT	Remove Left Turn	1.4	4.1	10.0	0.1	0.0	2.4
BUD47	12th Ave NE	EBT	Remove Left Turn	4.7	2.5	4.1	3.2	0.0	0.3
BUD48	Brooklyn Ave NE	EBT	Remove Left Turn	4.8	8.0	17.5	0.0	6.4	7.4
BUD49	University Way NE	EBT	Remove Left Turn	1.1	1.4	1.0	0.0	0.0	0.0
BUD25	15th Ave NE	EBR	TSP	29.4	22.0	34.9	6.6	5.8	5.0
N and NE 45th St. Total [sec]:				74.5	98.7	90.5			

Intersections on 15th Avenue NE				AM	MD	PM	AM	MD	PM
BUD27	NE 43rd St	SBT	Inline Transit Stops/Bus Bulbs	8.5	9.0	8.1	8.5	9.0	8.1
BUD50	NE 43rd St	SBT	TSP	5.0	6.9	15.1	2.4	3.6	3.8
BUD51	NE 42nd St	SBT	TSP	4.2	4.1	1.5	1.6	2.3	1.3
BUD52	NE 41st St	SBT	TSP	2.6	5.4	6.2	2.9	4.0	5.3
BUD53	NE 40th St	SBT	TSP	6.7	6.9	10.6	3.6	3.0	4.7
BUD54	NE Pacific St	SBT	TSP	51.1	42.3	42.7	3.7	3.7	6.9
15th Avenue NE Total [sec]:				22.7	25.6	30.1			

Grand Total [sec]:	175.3	198.0	193.4
Grand Total [min]:	2.9	3.3	3.2
Baseline Travel Time [min]:	28.6	32.9	33.4
% Improvement:	10%	10%	10%

Table 2A: Proposed Improvement Projects and Travel Time Savings in Seattle

Project No.	Outbound Direction (Westbound)	Bus Mvnt	Proposed Improvement	Existing Delay [sec]			Time Savings [sec]		
Intersections on 15th Avenue NE				AM	MD	PM	AM	MD	PM
BUD54	NE Pacific St	NBT	TSP	4.3	3.8	6.0	7.1	6.6	7.6
BUD53	NE 40th St	NBT	TSP	5.5	10.7	14.1	1.8	2.9	3.2
BUD52	NE 41st St	NBT	TSP	5.0	7.3	6.6	1.4	2.1	1.2
BUD51	NE 42nd St	NBT	TSP	3.7	8.4	1.1	1.6	2.4	4.0
BUD50	NE 43rd St	NBT	TSP	8.9	8.8	4.7	4.9	4.4	6.4
15th Avenue NE Total [sec]:				16.8			18.4		

Intersections on N and NE 45th Street				AM	MD	PM	AM	MD	PM
BUD25	15th Ave NE	NBL	TSP	48.1	80.7	60.8	10.2	9.4	9.1
BUD26	15th Ave NE	NBL	Queue Jump	48.1	80.7	60.8	24.1	61.7	29.8
BUD28	University Way NE	WBT	BAT Lane & Remove Left Turn	2.4	4.5	6.2	1.5	2.4	3.9
BUD28	Brooklyn Ave NE	WBT	BAT Lane & Remove Left Turn	3.1	12.6	20.9	0.0	8.2	5.7
BUD28	12th Ave NE	WBT	BAT Lane & Remove Left Turn	4.7	10.0	6.3	3.4	5.8	3.9
BUD28	11th Ave NE	WBT	BAT Lane & Remove Left Turn	1.1	5.6	5.7	0.3	1.1	0.6
BUD28	Roosevelt Ave NE	WBT	BAT Lane & Remove Left Turn	6.5	3.2	3.8	0.0	0.0	0.0
BUD22	7th Ave NE	WBT	TSP	15.2	29.4	50.2	8.4	4.0	3.4
BUD23	7th Ave NE	WBT	Queue Jump	15.2	29.4	50.2	2.2	17.5	35.9
BUD28	7th Ave NE	WBT	BAT Lane & Remove Left Turn	15.2	29.4	50.2	5.1	11.8	26.4
BUD20	5th Ave NE	WBT	TSP	9.7	9.1	5.9	1.1	1.1	1.1
BUD19	Latona Ave NE	WBT	TSP	3.5	4.4	3.3	0.9	0.5	0.7
BUD45	Latona Ave NE	WBT	Inline Transit Stops/Bus Bulbs	4.8	8.7	9.4	4.8	8.7	9.4
BUD17	Thackery Pl NE	WBT	TSP	12.0	12.2	16.3	0.9	0.5	0.7
BUD29	Sunnyside Ave N	WBT	Inline Transit Stops/Bus Bulbs	3.0	11.4	13.6	3.0	11.4	13.6
BUD14	Wallingford Ave N	WBT	TSP	14.0	24.4	20.7	2.1	2.3	2.3
BUD30	Wallingford Ave N	WBT	Inline Transit Stops/Bus Bulbs	10.2	13.7	14.5	10.2	13.7	14.5
BUD31	Woodlawn	WBT	Inline Transit Stops/Bus Bulbs	6.8	10.7	12.0	6.8	10.7	12.0
BUD32	Stone Way N	WBT	Inline Transit Stops/Bus Bulbs	3.5	7.2	13.5	3.5	7.2	13.5
N and NE 45th St. Total [sec]:				88.6			178.0		

Intersections on N 46th Street				AM	MD	PM	AM	MD	PM
BUD33	Whitman Ave N	WBT	Inline Transit Stops/Bus Bulbs	5.6	6.7	14.5	5.6	6.7	14.5
BUD34	Fremont Ave N	WBT	Inline Transit Stops/Bus Bulbs	6.6	7.8	8.4	6.6	7.8	8.4
BUD35	Phinney Ave N	WBT	Inline Transit Stops/Bus Bulbs	7.1	8.6	9.4	7.1	8.6	9.4
N 46th St. Total [sec]:				19.2			23.2		

Intersections on Market Street				AM	MD	PM	AM	MD	PM
BUD37	1st Ave NW	WBT	Inline Transit Stops/Bus Bulbs	1.5	2.4	3.1	1.5	2.4	3.1
BUD38	Baker Ave NW	WBT	Inline Transit Stops/Bus Bulbs	0.9	1.4	3.4	0.9	1.4	3.4
BUD39	3rd Ave NW	WBT	Inline Transit Stops/Bus Bulbs	1.2	2.9	7.2	1.2	2.9	7.2
BUD40	6th Ave NW/5th Ave NW	WBT	Inline Transit Stops/Bus Bulbs	1.6	4.1	7.2	1.6	4.1	7.2
BUD41	8th Ave NW	WBT	Inline Transit Stops/Bus Bulbs	7.2	8.4	9.6	7.2	8.4	9.6
BUD42	11th Ave NW	WBT	Inline Transit Stops/Bus Bulbs	3.2	4.6	4.5	3.2	4.6	4.5
BUD43	14th Ave NW	WBT	Inline Transit Stops/Bus Bulbs	8.0	8.8	10.0	8.0	8.8	10.0
BUD55	15th Ave NW	WBT	TSP	16.3	27.3	17.8	5.8	6.3	6.4
BUD44	15th Ave NW	WBT	Inline Transit Stops/Bus Bulbs	7.1	8.3	8.2	7.1	8.3	8.2
Market Street Total [sec]:				36.4			47.2		

Grand Total [sec]	161.2	267.5	301.0
Grand Total [min]	2.7	4.5	5.0
Baseline Travel Time [min]	27.4	35.0	41.1
%Improvement	10%	13%	12%

Summary of Improvement Projects in Seattle	
Project #	Project Title
BUD1	Bus Bulb Eastbound at NW Market St & 15th Ave NW
BUD2	Bus Bulb Eastbound at NW Market St & 14th Ave NW
BUD3	Bus Bulb Eastbound at NW Market St & 11th Ave NW
BUD4	Bus Bulb Eastbound at NW Market St & 8th Ave NW
BUD5	Bus Bulb Eastbound at NW Market St & 6th Ave NW/5th Ave NW
BUD6	Bus Bulb Eastbound at NW Market St & 3rd Ave NW
BUD7	Bus Bulb Eastbound at NW Market St & Baker Ave NW
BUD8	Bus Bulb Eastbound at NW Market St & 1st Ave NW
BUD9	Bus Bulb Eastbound at N 46th St & Phinney Ave N
BUD10	Bus Bulb Eastbound at N 46th St & Fremont Ave N
BUD11	Bus Bulb Eastbound at N 46th St & Whitman Ave N
BUD12	Bus Bulb Eastbound at N 45th St & Stone Way N
BUD13	Bus Bulb Eastbound at N 45th St & Woodlawn Ave N
BUD14	TSP at N 45th St & Wallingford Ave N
BUD15	Bus Bulb Eastbound at N 45th St & Wallingford Ave N
BUD16	Bus Bulb Eastbound at N 45th St & Sunnyside Ave N
BUD17	TSP at NE 45th St & Thackery PI NE
BUD18	Bus Bulb Eastbound at NE 45th St & Thackery PI NE
BUD19	TSP at NE 45th St & Latona Ave NE
BUD20	TSP at NE 45th St & 5th Ave NE
BUD21	Parking Removal Eastbound at NE 45th St & 5th Ave NE to Latona Ave NE
BUD22	TSP at NE 45th St & 7th Ave NE
BUD23	Queue Jump Westbound at NE 45th St & 7th Ave NE
BUD24	Remove Left Turn Lane at NE 45th & Roosevelt
BUD25	TSP at NE 45th St & 15th Ave NE
BUD26	Queue Jump Westbound at NE 45th St & 15th Ave NE
BUD27	Bus Bulb Northbound at 15th Ave NE & NE 43rd St.
BUD28	BAT Lane Westbound from NE 45th St & 15th Ave NE to NE 45th St & 7th Ave NE
BUD29	Bus Bulb Westbound at N 45th St & Sunnyside Ave N
BUD30	Bus Bulb Westbound at N 45th St & Wallingford Ave N
BUD31	Bus Bulb Westbound at N 45th St & Woodlawn
BUD32	Bus Bulb Westbound at N 45th St & Stone Way N
BUD33	Bus Bulb Westbound at N 46th St & Whitman Ave N
BUD34	Bus Bulb Westbound at N 46th St & Fremont Ave N
BUD35	Bus Bulb Westbound at N 46th St & Phinney Ave N
BUD36	BAT Lane Westbound on N 46th St & Phinney Ave N
BUD37	Bus Bulb Westbound at NW Market St & 1st Ave NW
BUD38	Bus Bulb Westbound at NW Market St & Baker Ave NW
BUD39	Bus Bulb Westbound at NW Market St & 3rd Ave NW
BUD40	Bus Bulb Westbound at NW Market St & 6th Ave NW/5th Ave NW
BUD41	Bus Bulb Westbound at NW Market St & 8th Ave NW
BUD42	Bus Bulb Westbound at NW Market St & 11th Ave NW
BUD43	Bus Bulb Westbound at NW Market St & 14th Ave NW
BUD44	Bus Bulb Westbound at NW Market St & 15th Ave NW
BUD45	Bus Bulb Westbound at NE 45th St & Latona Ave NE
BUD46	Remove Left Turn Lane at NE 45th St & 11th Ave NE
BUD47	Remove Left Turn Lane at NE 45th St & 12th Ave NE
BUD48	Remove Left Turn Lane at NE 45th St & Brooklyn Ave NE
BUD49	Remove Left Turn Lane at NE 45th St & University Way NE
BUD50	TSP at 15th Avenue NE & NE 43rd St
BUD51	TSP at 15th Avenue NE & NE 42nd St
BUD52	TSP at 15th Avenue NE & NE 41st St
BUD53	TSP at 15th Avenue NE & NE 40th St
BUD54	TSP at 15th Avenue NE & NE Pacific St
BUD55	TSP at Market Street & 15th Avenue NW